start their growth in the soil the ful lookout after fumigation. Give

same as any other seed, the young the potatoes a daily inspection at

is, that the smaller the particles the most of the stock was sold and the tributing and handling seed potamore rapid does fermentation of silage was not needed. Notwith- toes. Growers are urged to sort the layer. which to draw plant food.

HOW TO GROW OATS

The United States bureau of plant capacity, as they require a great deal phosphorus is usually the most imbe added. Very rich soils, especially if deficient in phosphorus, cause rank growth, with lodging as a re-When grown for hay or forage, nitrogenous fertilizers may be used. Oats do best on a rather loose, well-prepared seed bed. The common method of sowing broadcast on cornstalk land, without preparation and covering it with a disk harrow is careless and uncertain. A thorough preparation of the seed bed is quite as essential as with other crops.

A SILO EXPERIENCE

Dry weather conditions in many states, and a consequent shortage in seeds but bears no leaves, or only the corn and grass crops, have gone abortive ones, as will be noticed, a long way to demonstrate the fact that the farmer who is equipped with ter; therefore, it is obliged to lead a well filled silo has a veritable bank to draw upon in times of agricultural stress. A Kansas reader writes of his experience with a silo built on his farm three years ago. This silo was built on the metal lath plan, the concrete being plastered on high, or until it comes in contact to the lath until it was four inches thick. It was filled at that time with corn silage. A few weeks after,

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such injury to potato crops in various parts of the country, especi-

western corn belt country.

AN ALFALFA AND CLOVER PEST

plant living upon the material of

the seed until it is about four inches

with the alfalfa plant. Then it gives

a couple of turns around the alfalfa,

develops roots on its lateral surface,

which roots penetrate the stem of

the alfalfa, growing inward to the

conducting tissues, where there is a

good supply of food it can use. After getting this hold on the alfalfa plant

the dodder dies below and is no lon-

ger connected with the soil at all,

large numbers of seeds. Its be-

plants is the same as upon alfalfa.

Inasmuch as it grows very rapidly it

There are two methods of treat-

ment for this pest. As soon as a

patch is discovered in a clover or

alfalfa field it should be at once cut

with a scythe or sickle, and the al-

falfa, dodder and all, removed and

burned. If a field becomes badly in-

fected, the only method is to plow

it under and crop with something

other than a forage crop for a year

or two until all the dodder seeds

have germinated. Clover or alfalfa

should never be used for seed if there is dodder in the field, and great

care should be used in the purchase

of seeds to see that they are not con-

taminated with dodder. There is no

occasion for allowing a field to be-

less be glad to test your seed free

WARNING TO POTATO GROWERS

The potato tuber moth is working

plants.

of charge.

United States department of agricareless methods of using and dis- veloped body, perfect in all its parts, Oak (Ia.) Sun.

bacterial action take place within it, standing the fact that there never potatoes for seed two weeks after the better will it retain moisture, was a top on the silo and that the digging and then sort them over two and the more perfect will the condi- silage had been in for almost three weeks later. The potatoes unaffected tions be for the roots to find the years, he commenced feeding this by the tuber moth should then be greatest amount of surface from silage to his stock this summer and placed in a moth proof bin. It is found it to be in excellent condition. easy to pick out the infested tubers In fact, this silage is the only feed because of the excrement of the which his stock, both horses and moth, which adheres by means of a cattle, have had for nearly eight web to the outside of potatoes and weeks, and seemed to be doing well. can be easily detected. The tubers industry states that oats grow best This reader also sees no reason why placed in a moth-proof bin, after on soils with good water-holding his silo will not be good 100 years final sorting should be fumigated by from this time, and thinks that it is means of carbon bisulphide (or biof moisture. When grown for grain, the best investment he ever made sulphide of carbon, as it is known), in improving a farm. The experi- in order to kill any moths which portant fertilizing element which can ence of this reader should bring might have bred out or slipped home the fact to every farmer that through the crevices when the bin the silo is a sure means of conserv- was opened. Carbon bisulphide is ing the crops of fat years to provide applied by pouring small quantities for just such emergencies as are be- into flat vessels such as milk pans ing experienced in feed shortage this or pie tins. An average of three summer over many sections of the pounds should be used for every 1,000 cubic feet of space. About a pint is poured into each receptacle and the pans are placed in the bins at the top. The gas, being heavier Dodder is one of the serious pests than air, it will penetrate the mass of the alfalfa and clover fields. The of potatoes to the bottom. The bin weed is not a native of America, but should be tightly closed for from of Europe, from whence it was prob-24 to 36 hours, with assurance that ably introduced in seed of grass or the germinating power of the seed other forage plants. Being a flowerwill not be destroyed. The gas of ing plant, it reproduces by means of carbon bisulphide is very inflammable and explosive in its nature and the utmost care must be used to see and contains no green coloring matthat no light, spark or fire of any description is brought into the a parasitical existence upon some vicinity while it is being used, not other plant. The seeds of the dodder

NEXT WINTER LAYERS

insure his future crops.

even a lighted cigar. Keep a care-

first, then weekly. If any growth

of the insect is detected, give a

second fumigation. This method is

simple and effective, and the grower

who does not wish his present yields

cut down heavily by the inroads of

the moth can well afford the little

time and trouble it may take to thus

This is a good month to commence getting all of its nourishment from selecting the flock that is to be carits "host." The plant flowers usually ried through next winter. It does Cleveland, O. Price, \$1.50. from July until late fall, producing not pay to feed unprofitable birds and care for them so long. That havior on clover and many other faithful old hen that is being kept for the good it has done will eat at least a dollar's worth of feed in a causes serious trouble with forage year, even if it is kept on a farm and there seems to be plenty of feed. By allowing old hens to live on the place, instead of some young pullet that will lay well, you are losing publishers, New York City. money. If you will look over your flock carefully you can cull out the De Witt Hyde. Thos. Y. Crowell. unprofitable fowls. In selecting the publishers. New York City. winter flock, you should pick out the best layers. There will be no difficulty about this if you use the trap son, director of bureau of railroad nest system and keep a record of each hen. However well this may pay for any one who makes a business of poultry raising, some farmers will find it impracticable for their use, and some other method must be used. The general appearance of the hen is a good indication. A lazily inclined hen is not apt to be come infected with this pest. If you a good layer and should be culled are in doubt about the seed you buy out of the flock that is to be carried your experiment station will doubt- through the winter. A hen with a pale comb and dull eves is likewise not a good layer. Rough looking plumage before the molt is not a good sign, but a flock that is molting can hardly be judged fairly. The hot summer and unfavorable conditions are very trying on the flock, and the hen that is still laying at this time ally in California and Texas, that the of the year is generally strongly constituted. If she shows a bright, culture has issued a special warning quick, alert, healthy condition in and instructions to potato growers September, she is very likely to be to help them wercome this highly the laying ben next winter. In selectinjurious pest. According to the ing pullets for layers choose the first changed from a weekly to a monthly. specialists this moth is being rapidly to mature. A retarded growth nearly The Commoner is a great power for spread over the country in ship- always impairs the ability to lay good. As an instructor in political ments of infested potatoes and by eggs.

is what it takes to make a good

AUTOMOBILES AND FARM VALUES

No one thing has done so much to alter the status of farm life as the introduction and perfection of the automobile and the motor truck, Instead of looking upon the automobile as a luxury, the farmers were keen to realize that it was one of the most far-sighted economies of farm life, for it has been the means of placing every farmer within easy access to his markets. That automobiles are mainly responsible for an increase of \$2,000,000,000 in the value of farm lands in the past twelve years is the declaration of Newman Erbe, president of the Minneapolis & St. Louis railway. He also asserts that indirectly the automobile has also increased railroad earnings.

The Sioux City Tribune says: "It is easy to see how the automobile operates to increase farm values. Formerly a farm 20 miles from a railroad was so isolated as to be of low value. Now it is within an hour's easy run, and the run can be made while the horses work or rest. Good roads have followed the automobile and even those farmers who do not use motor trucks to haul produce to market are much better off because of decreased hauling expenses due to better roads. The demand for farm lands is increased by the broadening of social opportunities which the automobile has brought to rural communities. As to increased railroad earnings the explanation is also simple. Good roads are feeders to railroads, both for freight and passenger traffic. The railroads realize this and show no regret at the introduction of the automobile, although it deprives them of some short haul passenger business."

BOOKS RECEIVED

Starving America, by Alfred W. McCann. F. M. Barton, publisher,

The supreme court of the United Edwin Countryman. States, by Matthew Bender & Co., publisher, Albany, N. Y.

The New American Drama, by Richard Burton. Thos. Y. Crowell Co., publishers, New York City.

Training for Efficiency, by Orison Swett Marden. Thos. Y. Crowell, The Quest of the Best, by William

The Railway Library 1912. Com-

piled and edited by Slason Thompnews and statistics, Chicago. Published by Stromberg Allen & Co., Chicago.

AN EDUCATIONAL FORCE

William Jennings Bryan, one of the greatest men of the age, announces that henceforth his most valuable paper-The Commonerwill be issued monthly instead of weekly. The Commoner has done more to educate the rank and file of party in democratic principles than all other papers combined, and while its visits to the homes of many thousands of its readers will be cut short from four times per month to one, we hope it will not retard the educational growth of the party. Ellensburg (Wash.) Dawn.

A POWER FOR GOOD

The Commoner, W. J. Bryan's paper, has been increased in size and ments of infested potatoes and by eggs. A well built and fully de- matters it is indispensable. — Red